

WHAT IS CLAIMED IS:

Sub 1
1. A communication apparatus having a wired communication function and a wireless communication function, comprising:

determining means for determining whether connection is made to a wired communication line; and

control means for selectively controlling, in accordance with the determination by said determining means, whether to transmit data from said communication apparatus through one of the wired communication line and a wireless communication link.

2. A communication apparatus according to Claim 1, wherein said determining means performs the determination based on whether synchronization with one of layer 1 and layer 2 of the wired communication line can be established.

3. A communication apparatus having a first mode for performing wireless communication under the control of a first wireless communication apparatus and a second mode for controlling so that a second wireless communication apparatus performs wireless communication, said communication apparatus comprising:

determining means for determining whether connection is

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made to a wired communication line; and

control means for controlling, in accordance with the determination by said determining means, so as to switch between the first mode and the second mode.

4. A communication apparatus according to Claim 3, wherein said determining means performs the determination based on whether synchronization with one of layer 1 and layer 2 of the wired communication line can be established.

5. A communication apparatus according to Claim 3, further comprising:

generating means for generating a clock for performing communication through a wireless communication link;

wherein said control means controls, in accordance with the determination by said determining means, to perform one of communication in accordance with a clock extracted from the wired communication line and communication in accordance with the clock generated by said generating means.

6. A communication apparatus according to Claim 3, wherein said determining means performs the determination when power is supplied to said communication apparatus.

7. A communication apparatus according to Claim 3,

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8. A communication apparatus according to Claim 3,
wherein said determining means periodically performs the
determination.

9. A communication apparatus according to Claim 3, wherein said control means controls so as to perform display in accordance with the determination by said determining means.

10. A communication apparatus according to Claim 3,
wherein said control means controls so as to display whether
to perform one of the communication in the first mode and
the communication in the second mode.

11. A communication apparatus according to Claim 3,
wherein the first mode is a mode in which communication
through the wired communication line is performed through
the first wireless communication apparatus; and

the second mode is a mode in which relaying processing is performed to enable the second wireless communication apparatus to perform communication through the wired communication line.

13. A communication apparatus according to Claim 3,
wherein said communication apparatus performs digital
wireless communication and digital wired communication.

a digital/digital code converter for performing digital/digital code conversion of data received from a digital wireless link and for performing digital/digital reverse code conversion of data received from the wired communication line;

a selector switch for switching to interconnect the digital/digital code converter and the wired communication

line when said communication apparatus and the wired communication line are connected to each other or to interconnect the digital/digital code converter and the analog/digital converter when said communication apparatus and the wired communication line are not connected to each other.

15. A method for controlling a communication apparatus having a wired communication function and a wireless communication function, comprising the steps of:

determining whether connection is made to a wired communication line; and

selectively controlling, in accordance with the determination in said determining step, whether to transmit data from said communication apparatus through one of the wired communication line and a wireless communication link.

16. A method for controlling a communication apparatus having a first mode for performing wireless communication under the control of a first wireless communication apparatus and a second mode for controlling so that a second wireless communication apparatus performs wireless communication, said method comprising the steps of:

determining whether connection is made to a wired communication line; and

~~controlling, in accordance with the determination in said determining step, so as to switch between the first mode and the second mode.~~

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$